



## Maryland Green Registry MEMBER

The Maryland Green Registry promotes and recognizes sustainable practices at organizations of all types and sizes. Members agree to share at least five environmental practices and one measurable result while striving to continually improve their environmental performance.

# Long Reach High School

6101 Old Dobbin Lane

Columbia, MD 21045

410-313-7117

[www.howard.k12.md.us/lrhs/home.html](http://www.howard.k12.md.us/lrhs/home.html)

High School

Member since August 2010

## Management and Leadership



### Environmental Team

*The Long Reach Environmental club works to expose students and the community to the new and emerging energy industry while giving them an increased awareness and appreciation of the multi-faceted impacts of human interactions with the natural environment. The leadership structure is a committee made up of:*

- *Advisor: John Jacobs*
- *President: Ryan Krumlauf*
- *Vice President: Sarah Malinowski*
- *Secretary: Fabian Castro*
- *Secretary: Caty Dwyer*
- *Treasurer: Nicky Smith*

*Members: Aileen Tartanian, Hannah Sunday, Michelle Vanagas, Jake Paredes, Scott Korzeniowski, Nicole Grobowski, Adrian Evans, Ariana Castro, Taylor Burfeind, Danielle Ellis, Yaa, Amoah-Tachie.*

*The committee meets at least four times per month to set and accomplish goals and to monitor progress. The Environmental Club has been involved with instituting green energy initiatives, installing recycling bins throughout the school, increasing environmental awareness education and planting trees in Patapsco State Park.*

**Annual Environmental Goals**

*The Environmental Club seeks to have LRHS become LEED (EB) and Energy Star certified, increase participation in recycling programs, introduce biodegradable student lunch materials, implement plants for Indoor Air Quality (IAQ), and restore the LRHS drainage pond ecosystem.*

**Environmentally Preferable Purchasing**

*All cleaning products currently in use at LRHS are green, including Daycon DX-50, Wepak Kremler Kleanser Cleaner, SprayPak Chewing Gum and Candle Wax Remover, and Spartan NABC (Non-Acid Disinfection Bathroom Cleaner) and all paints, carpets, glue, and similar materials are low VOC. LRHS also uses paper towels and toilet paper that are 100% recycled, Green Seal and EcoLogo certified.*

**Environmental Restoration or Community Environmental Projects**

*LRHS is in the process of planning an initiative to update the local community on what the school has done and how the community can participate in the goal to be more environmentally friendly. The agenda involves four different classes to educate participants on issues such as the BGE rebate program, how to read an energy bill, home energy audits and solar and geothermal power.*

## Waste

**Recycling**

*Long Reach currently recycles paper, cardboard, aluminum cans, plastic and glass. The club plans to post recycling posters and information in every classroom for the coming school year. Reminders are currently in use in stairwells and the cafeteria.*

## Energy

**Energy Efficiency**

*LRHS has received a free energy assessment from its partner firm Select Energy Solutions. This assessment identified energy reduction and cost saving opportunities for the school. This assessment also provided LRHS with a baseline energy usage figure and the knowledge to track energy consumption.*

*LRHS has continued to demonstrate its commitment to conservation by implementing an energy efficiency project. Phase I of the energy efficiency project, completed in December 2009, involved strategically installing ceiling mounted lighting sensors throughout the school. Select Energy Solutions projects an average savings of 30% on lighting from this project. Accordingly, LRHS would save an estimated at 173,630 KWH/ yr or \$20,836/yr (\$0.12 kWh). There are also benefits to the environment:*

*Carbon Dioxide Saved:            232,644 Lbs (equivalent emission reduction of 20 vehicles)*

*Methane Saved:                    3,541.3 Lbs*

*Nitrous Oxide Saved:            3,576.8 Lbs*

*(Source: SEMCO – Southern Maryland Energy Cooperative)*

*Currently LRHS is working to implement phase II of the energy efficiency project which may involve installing additional sensors, VFD drives and new lighting technologies that will further reduce consumption and energy costs.*

*Faculty, staff and students are constantly updated on the progress of these projects to promote a culture of awareness and encourage participation. LRHS's partnership with Select Energy Solutions, Inc is helping the school to pursue its goals by providing education to students on the latest facts and technologies in the field. These educational sessions have helped the environmental committee to evaluate and implement cost effective practices at the school. These projects also help the State to achieve the EmPower MD goal of 15% reduction in consumption by the year 2015.*



*Help build a greener, more sustainable Maryland through voluntary practices that reduce environmental impacts and save money.*

*Learn more at [www.green.maryland.gov/registry](http://www.green.maryland.gov/registry)*

